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Department of Entomology Newsletter, University of Nebraska, No. 5 -- 1988. Part 1.

George R. Manglitz

University of Nebraska - Lincoln

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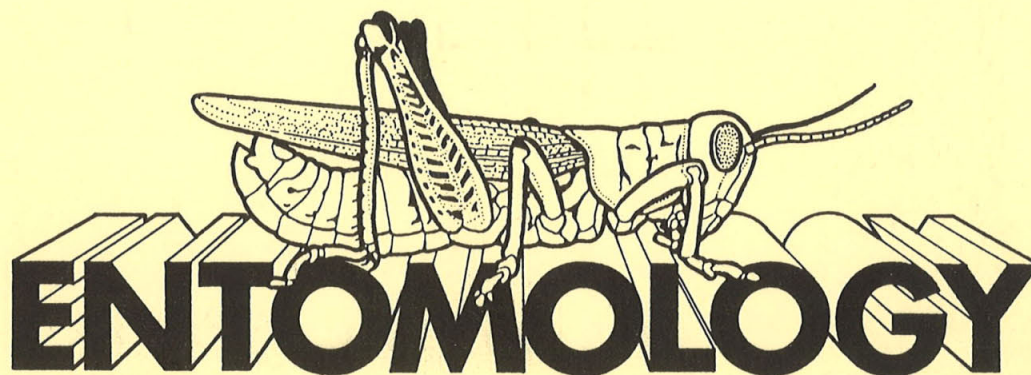
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DEPARTMENT OF



NEWSLETTER

1888

1988

100 YEARS
OF CONTINUOUS SERVICE

PART 1

University of Nebraska

No. 5



1988

FRONT COVER

The design is illustrated by Jim Kalisch and while it is reminiscent of the old, its message is up-to-date. In the year 1888 Lawrence Bruner began his career with the University of Nebraska. His dedicated service and contributions to the Entomological Profession, the University of Nebraska, and citizens of the state, nation, and world still benefit us today.

**This Fifth Newsletter
of the Department of Entomology
is Sincerely Dedicated to
our recent emeriti**

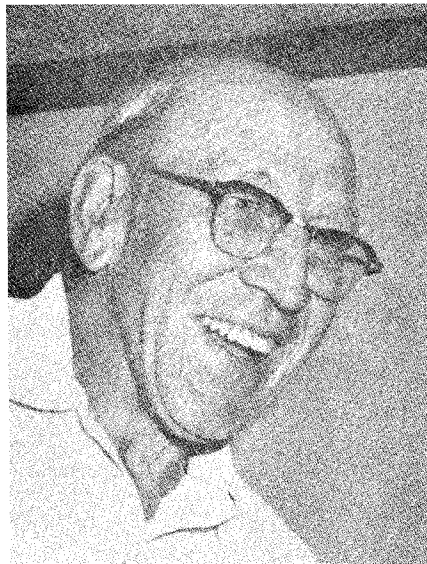
**Jerold H. L. Bell
Robert E. Roselle
Elvis A. Dickason
Lloyd W. Andersen
Robert Staples**

**in Appreciation of their
Long and Distinguished Service
and is presented
In Memoriam to**

Roscoe E. Hill

**who continued to serve us in retirement
until his death on December 3, 1987**

DEDICATED TO



Jerold H. L. Bell

We hereby recognize the many years of faithful service that Jerry gave to the farmers and ranchers of Nebraska. Jerry was employed by USDA- APHIS and held a courtesy appointment as an assistant professor in the Department of Entomology. Upon his retirement in February 1980, Jerry was granted emeritus status by the University of Nebraska.

From the time that Jerry was transferred to Nebraska from Pierre, South Dakota by USDA, November 13, 1956, until the spring of 1974 when his office was moved to the new Federal Building in downtown Lincoln, Jerry was officed with the Department in PI. We saw just a bit less of Jerry after the move but his diligence and cooperativeness were not diminished. Jerry, we salute you for your excellent service under conditions that were often difficult and sometimes trying. We hope that Jerry and Lorraine will have many happy years ahead of them.

DEDICATED TO



Robert E. Roselle

To the Nebraska farmer, rancher, homeowner and extension agent, the name of Bob Roselle was synonymous with good solid information on pest control. For a period of over 30 years, Bob served the University and the people as Extension Entomologist in the Department of Entomology. Among his achievements and legacies are one of the strongest Extension Entomology programs in the country, his many friends and followers and a Nebraska agriculture that has prospered in part due to his sound advice and recommendations. Bob served as Project Leader during his entire tenure at IANR, receiving several citations and awards for his outstanding work. He was most proud of his NCEA Outstanding Specialist Award, as it came from his valued colleagues in the Nebraska Cooperative Extension Service. In addition, he received the USDA Superior Service Award in 1964 and several others along the way. Bob was perhaps best known for his role as entomologist on the Backyard Farmer show on NETV. When Bob retired in 1983, this show was (and still is) the longest running show on national educational television. We have missed Bob in the Department since his retirement, but continue to conduct our programs with his outstanding leadership and example in mind. We wish him and his wife Peggy many years of enjoyable retirement.

DEDICATED TO



Elvis A. Dickason

Dick retired from the University of Nebraska December 31, 1984. Prior to accepting the position of Head of the Department of Entomology here at the University of Nebraska in 1970, Dick was a faculty member in the Department of Entomology at Oregon State University for 22 years.

Dick served the Department and the University in a variety of ways and was known as an outstanding leader and communicator. In addition to serving as Head of the Department of Entomology, Dick was Interim Director of International Programs for IANR from 1973-1975, and was Coordinator of the University of Nebraska's Colombian Scientific Linkage Program from 1980-1983. Dick's effectiveness as a leader was recognized in 1981 when he was selected as the recipient of the University of Nebraska's "Carl A. Donaldson Award for Excellence in Management".

During Dick's tenure as Head of the Department, the number of faculty in the Department increased over 50%, the physical size of the Department doubled as we expanded to occupy both the second and third floors of the Plant Industry Building, and the USDA-ARS Mid-West Livestock Insects Research Laboratory was established. We wish Dick and Helen many happy years of retirement.

DEDICATED TO



Lloyd W. Andersen

Lloyd began his service with the University of Nebraska in 1955 as the Extension Survey Entomologist, later accepting the Potato Specialist position at the Panhandle Station. He returned to Lincoln in 1967 to complete his doctorate under Professor Bob Staples. After returning to the Panhandle Station, Lloyd assumed the position of Assistant, and later, Associate Director. In 1978 Lloyd returned to Lincoln as the IPM Specialist, serving here until his retirement in 1986. In this capacity, Lloyd developed a close and positive relationship with the new Nebraska Independent Agricultural Consultants Association. He is remembered for his vigorous meeting style, his enthusiasm for his subject matter and his willingness to go out of his way to help his clientele. To Lloyd and his wife Helen, we wish a very happy and personally rewarding retirement.

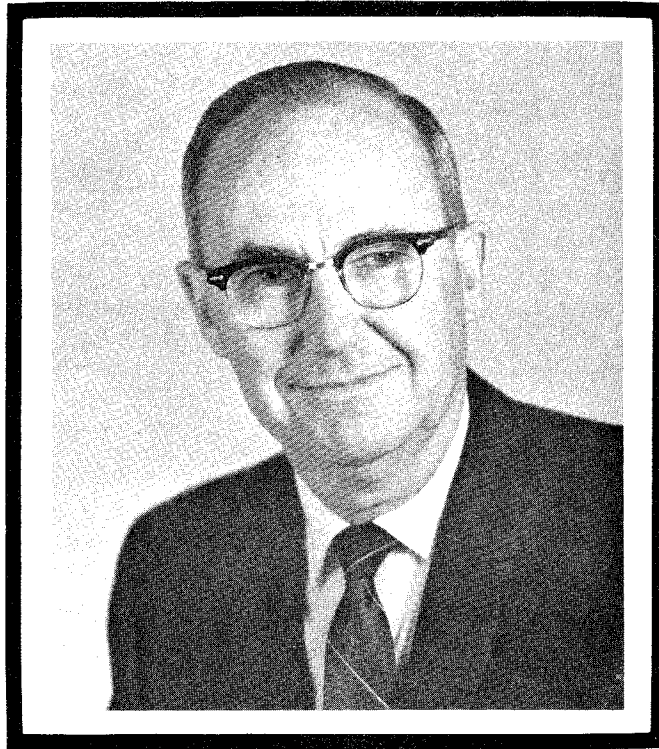
DEDICATED TO



Robert Staples

We wish to salute Robert "Bob" Staples for his long and dedicated service to the Department of Entomology and the people of Nebraska. Bob's service dates back to 1950 which makes him the senior among living staff members, both active and emeritus. Bob retired during the summer of 1987 after about five years of part-time teaching. He eased out gently and gracefully. Overall, Bob's most outstanding research involved the epidemiology of wheat streak mosaic which won awards. He taught a number of courses including plant disease transmission by insects. His most recent offerings involved identification of adult and immature insects. Certain aspects of departmental life are not as lively as they were when Professor Staples was an active member of the Department. He kept us all alert. Bob and Corinne, we wish you the best.

IN MEMORIAM



ROSCOE E. HILL

January 16, 1911 - December 3, 1987

Although he retired in 1976 Roscoe could, more often than not, be found in his office in Pl. He had participated with the bowling team the day before he went in the hospital for "routine" surgery on December 1. His death was a very sad shock to all who knew him.

Roscoe began his association with the Department of Entomology as an undergraduate student in 1930 and he received the B.S. degree in 1934 and the MS in 1936. He went to the University of Illinois for two years, worked with USDA for two years and then returned to the University of Nebraska and the Department in 1940 as an assistant entomologist. He earned the Ph.D. at Iowa State College (now Iowa State University) in 1946. His chairmanship of the Department began in 1950 and continued into 1966.

The dedication to Roscoe in the 1976 Newsletter contained the statement, "We remember Roscoe with a linoleum knife cutting corn stalks, digging potatoes, stalking the elusive flea beetle, and with a bowling ball stuck on his thumb." We remember Roscoe these ways and in a myriad of other ways. Roscoe E. Hill is indelibly etched into the history of entomology in Nebraska.

Among Roscoe's survivors is his wife Norene, who was the Entomology Department secretary when she and Roscoe first met. Our condolences go to Norene.

Lincoln, NE
September 1988

Dear Former Members, Alumni, and Friends:

When the last Newsletter was published in 1976 (No. 4), it was assumed that it would be followed by another in 4 or 5 years. And indeed, considerable effort has been expended on the production of No. 5. However, for various very good reasons No. 5, although close to publication several times, aborted several times. Now largely because this is the centennial year of our Department, we feel that we can wait no longer. Because of that fact, the format of this Newsletter will be slightly different from those in the past. We have the "news" that you furnished about yourselves 5 or 6 years ago but because it is now so old and because we are ashamed to ask for an update without showing some good faith on our part, No. 5 is planned to be published in two parts. In this, Part One, we will try to give you a thumbnail sketch of what has happened to us in the past 12 years. Toward the end of Part One you will find a questionnaire which we would greatly appreciate having returned to us promptly. The returns will form the basis for Part Two (which we hope to have in your hands by the end of this year) and allow us to find out what you have been up to as well as allowing you to transmit that information to each other. We owe a debt of gratitude to Dave Keith, who was Newsletter Chair at the time of his departure to assume the role of Team Leader of the MIAC project in Morocco. Even though Dave didn't quite get a Newsletter together, he left a good base and made our job easier.

The years have been kind to us even though they have brought considerable change. We trust that the same is true with all of you. So, with these simple greetings I begin Part One of Entomology Newsletter No. 5.

George R. Manglitz
Chair, Department Newsletter Committee

Lincoln, NE
September 1988

Dear Friends:

As you will see by reading Part One of the Newsletter, the Department of Entomology has changed considerably since the last Newsletter was published in 1976. We have many new faces, new programs, and an additional floor in the Plant Industry Building. Part Two of the Newsletter, which we hope to have ready by the end of the year, will include information from you as well as more specific information on the Department. Your friends and colleagues are interested in what you have been doing so be sure to fill out and return the questionnaire included on the last page.

We owe special thanks to George Manglitz for taking the lead in putting this Newsletter together. It has been a very busy time for George; he plans to retire from the USDA-ARS this Fall after 36 years of outstanding service. George has been a productive and important member of our Department since he arrived in Lincoln in 1958, and I am happy to report that George plans to continue to contribute to our teaching program as well as other Departmental activities. We will have more information in Part Two of the Newsletter.

We look forward to hearing from you and hope you enjoy your Department of Entomology Newsletter.

Sincerely,

Z B Mayo, Acting Head
Department of Entomology

SOME NEBRASKA ENTOMOLOGICAL HISTORY

Roscoe E. Hill

When the University of Nebraska opened its doors to students in 1871, one of the original five-member staff was Sammuell Aughey, Professor of Natural Sciences. Although, in fact, not an entomologist he gave some attention to the more troublesome insects, especially during the grasshopper years of 1873 to 1876. Aughey once wrote that his studies "have been so largely devoted to Geology and Botany that I could not give Entomology that attention which the importance of the subject...demands".

Organized entomological work at the University of Nebraska dates from the establishment of the Nebraska Agricultural Experiment Station in 1887 when Conway McMillian was appointed entomologist. McMillian wrote just one bulletin and left the following year to accept the professorship of botany at the University of Minnesota. Lawrence Bruner then became entomologist of the Station in April 1888 and began a long and distinguished career. [It was Bruner's appointment date that Roscoe Hill considered to be the beginning of the Entomology Department-- editor's note.]

According to Bruner, "The entomologist was first housed or located between two museum cases in the west room of the north wing of University Hall." Later and for several years "one room served as lecture room, students' laboratory, library, research laboratory and professor's private office; it also contained the collection of insects which...had begun to assume fair proportions."

The Department of Entomology and Ornithology was established in 1895 with Bruner in charge. In 1906 ornithology was transferred to zoology and the department became the Department of Entomology.

The following "brief" historical synopsis merely touches on some of the more economic highlights. No attempt was made to include "landmarks" from the taxonomic and other basic researches which have been made down through the years. The periods in time are arranged around the seven chairmen for convenience. Hopefully all persons holding University staff appointments or cooperative assignments have been listed. (Errors or omissions should be called to our attention.)

In order to interpret the chronological staff lists, the following code is offered:

- * - resigned during that period.
- ** - died in office.
- *** - retired.
- + - a transfer to new status within U of N.
- ^ - USDA Research Associate in the Department.
- ^^ - USDA Grasshopper Control Associate.



Lawrence Bruner
1888-1919

(Marsland*, Barber*, Hunter, Swenk, Dawson, Zimmer*,
Smith*, Mickel*)

At first the entire work in entomology was handled by one man (Bruner) with such aid that he could secure from students while they pursued their entomological studies. Some of these students were given "assistant" status.

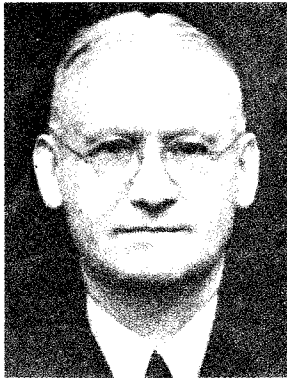
Much time was spent making collections of insects throughout the state, building up the collections, assembling a library, answering correspondence and speaking before groups of various organizations over the state.

From 1888 through 1903 a series of annual reports and bulletins were issued dealing with insects of ornamental and shade trees, small grains, corn, apples, grapes, livestock, clover, alfalfa, sugar beets and grasses. These contained much of what then was known of the life histories, habits and remedies for control of the insects which were or might become important to Nebraska's developing agriculture.

About 1906 the economic work of the Department moved from the city campus to Experiment Station Hall on the Ag Campus. Soon this became headquarters for all the Department.

Some insects studied: seed wheat Eleodes, parasites of white marked tussock moth, melon aphid, squash borer, cucumber beetle, squash bug, pine tip moth, corn earworm, potato stalk borer, strawberry leaf roller, alfalfa insects, grasshoppers and wild bees.

In 1912 the Plant Industry Building was built at a cost of \$85,000 plus \$12,000 for fixtures! (Over \$600,000 was spent just to do the restoration job on this building made necessary because of the August 1975 fire!!!)



Myron H. Swenk**
1919-1941

(Bruner***, Dawson*, Wehr*, Whelan, Bare, Tate, Hill)

This was the period just following World War I, of the Roaring Twenties, the Great Depression and widespread drought of the 30's. The Hessian fly caused much damage. Fly safe dates were determined and recommended and when followed saved growers thousands of dollars. The alfalfa weevil was first found in western Nebraska. The Extension Program in Entomology was organized. An emergency chinch bug program was organized and 1,525 farmers used gallons and gallons of creosote for barriers to protect corn. The worst grasshopper infestation since pioneer days occurred. Seventy-eight thousand Nebraska farmers used tons and tons of baits composed of dry bran, arsenicals and water. The potato psyllid caused severe losses to the western Nebraska potato crop.



H. Douglas Tate*
1941-1946

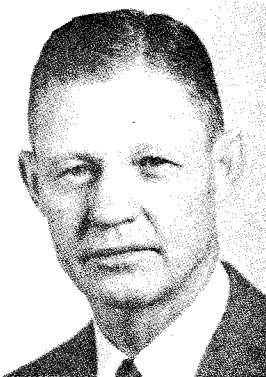
(Whelan*, Roberts*, Bare, Hill, Graham*, Doris, Gates*, Hauke ^ ^, Muma)

This was the period of World War II.

Physiological and toxicological laboratory studies were initiated. This constituted a policy change, for as one "outsider" described it, previous work in the Department had "appeared to be taxonomy at one end and practical control at the other and nothing in between". The need for a new insectary building was first realized and plans for such were begun.

Dusts were found to be as effective as sprays for control of potato insects. The heaviest potato leafhopper infestation of potatoes was recorded in central and eastern Nebraska. DDT was the most promising insecticide yet! Western corn rootworms were becoming more numerous and serious in central Nebraska. The European corn borer was first found in the state. A state-wide mosquito survey was made.

The first use was made of airplanes in Nebraska for application of insecticides to field crops-DDT on potatoes in western Nebraska.



Ephriam Hixson +
1946-1950

(Bare, Hill, Hauke ^ ^ *, Muma, Sooter*, Lomax, Staples, Bewick)

Benzene hexachloride as a dust or fog gave spectacular control of grasshoppers in western Nebraska. Hog mange mites were successfully controlled with benzene hexachloride sprays. Sweetclover weevil was reported to be spreading and seriously damaging sweetclover all over the state. A pre-planting treatment of the soil with benzene hexachloride was found to be a very effective control of northern and western corn rootworms. European corn borer continued to spread over the state. In 1949 it was present in 66 counties and caused an estimated loss of \$11,400,000. In 1948 an entomology division was created in the University of Nebraska State Museum. This assured better and continuous care of the valuable insect collections.



Roscoe E. Hill
1950-1966

(Bare**, Muma*, Lomax*, Staples, Bewick*, Helms*, Ball, Hamilton*, Quate*, Roselle, Connin ^ *, Andersen, C. Jones ^, Bell ^ ^, Weekman*, Pruess, Hagen, Howe ^ *, Manglitz ^, Atyeo, McKnight ^ *, Kantack*, Burcham*, Thompson ^ *, LaBerge*, Simpson*, Bergman*, Kishaba*, Calkins ^ *, Jarvis ^ *, Lawson, Medley ^ *, Rhine, Kindler ^, Kadoum*, Schalk ^, Munson, Campbell ^)

Insect-virus disease relationships were studied in cooperation with plant pathologists, with special emphasis on wheat streak mosaic. Research on the European corn borer was initiated. Soil insecticides were found to be the most effective means of controlling tuber flea beetles. The first custom spray operators short course was held in 1951. Biological and ecological studies of wheat curl mite were initiated.

The new insectary building was completed in 1953. It greatly improved facilities for research. The USDA was encouraged to place some of their research staff at the Nebraska Station - this resulted in two programs being started here - one in 1954 on sweetclover weevil research and one in 1956 on livestock insect research.

In 1954 grasshoppers were important in Nebraska and caused a \$28,000,000 loss. The first survey entomologist was appointed in 1955. In 1955 the spotted alfalfa aphid invaded the state and work

began on its biology and ecology. The pale western cutworm reached outbreak proportions in western Nebraska. The Nebraska Wheat Commission provided funds for studying the problem of cutworms on wheat.

A full-time entomologist was stationed at the Scottsbluff Experiment Station in 1957. The Forage Insect Laboratory building was constructed on the campus in 1958 by the USDA for increased work on legume insects.

The Department of Entomology was approved by the Graduate College in 1958 to offer a Ph.D. degree with a major in entomology. The first Ph.D. was granted in 1961.

In 1959-60 many complaints were received that rootworms were not being controlled by soil chemicals--later beetles were found to have become resistant to hydrocarbon insecticides. The first face fly was found in the state and was soon state-wide. Sexual forms of the spotted alfalfa aphid were discovered to be widespread in the state.

Corn rootworms became of greatest importance causing heavy losses and concern. Research was stepped up by adding staff and effort. In 1963 a laboratory facility and 20 acres of land at the U of N Field Laboratory near Mead were assigned to Entomology. A building there was remodeled and it and the land was used primarily for corn insect research.

Western bean cutworm was reported damaging corn in central areas of the state.



Earle S. Raun
1966-1970

(Hill, Staples, Ball, Roselle, Andersen, C. Jones ^, Bell ^ ^, Pruess, Hagen, Manglitz ^, Atyeo*, Lawson*, Rhine*, Kindler ^, Schalk ^, Munson, Campbell +, Helms, Peterson*, Keith, Ratcliffe)

There was some chinch bug damage to corn and sorghum in southeast Nebraska in 1966. The western bean cutworm was increasingly damaging to corn. The alfalfa weevil (western strain) extended its range eastward. There was a Fall outbreak of greenbug on wheat with serious losses. In 1968 an unprecedented outbreak of greenbugs occurred on grain sorghum.

A TV-taped introductory course in entomology was prepared and aired. Renovation of space on second floor PI provided room for the new Histopathology Research Laboratory. An extension-research position was established at the North Platte Experiment Station. The entomology research insect collections were moved from the PI Bldg. to Nebraska Hall on City Campus.



E. A. Dickason
1970-1984

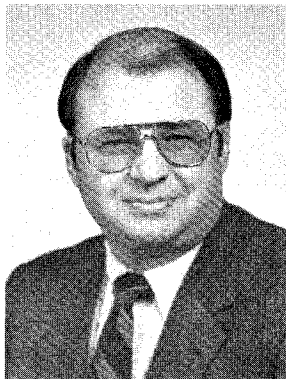
(Hill***, Staples, Ball, Roselle***, Andersen, C. Jones*, Bell ^ ^, Pruess, Hagen, Manglitz ^, Kindler ^, Schalk ^*, Munson*, Keith, Ratcliffe, Mayo, Peters, Gary*, Oseto*, Pike*, Witkowski, Rivers*, Holtzer, Joern, Gold, I. Berry, A. Jones, Kamble, Rogoff ^***, Scholl ^*, Moon ^*, Petersen ^, Meyer ^*, Dix ^, Thomas ^, Baxendale, Meinke)

The eastern strain of the alfalfa weevil was found in southeastern Nebraska in 1970 and began a relatively rapid invasion of the entire state. Within a few years it had met the western strain and greatly increased the amount of damage done by this insect. The 1970 and 1971 populations of the European corn borer had the highest state averages ever reported.

Extension-Research entomologists were assigned to both the South Central Station at Clay Center and the Northeast Experiment Station at Concord. Environmental Programs was added as a new entity in IANR in 1977. A new larger Livestock Insect Research Unit (USDA-ARS) was located in the Department in 1978.

There was a chinch bug outbreak in southeast Nebraska during 1979 and 1980.

The Rocky Mountain Forest Experiment Station (USDA-FS) program in entomology was located on East Campus in 1981.



Roger E. Gold
1985-

(Staples***, Ball, Andersen***, Pruess, Hagen, Manglitz ^, Kindler ^*, Campbell, Keith +, Ratcliffe, Mayo, Peters, Witkowski, Holtzer, Joern, I. Berry ^*, A. Jones, Kamble, Petersen ^, Dix ^, Thomas ^, Baxendale, Meinke, Danielson, Harrell, Kramer, Godfrey, Wright)

[Editor's note - Dr. Hill's history of the Department ended at this point. A few update statements seem pertinent. On the first of July 1988 Dr. Roger Gold became interim director of the Water Center and Dr. Z B Mayo became acting Head of the Department of Entomology. This arrangement will be in effect until July 1, 1989.]



Z B Mayo

1988-

PRESENT FACULTY AND STAFF

Faculty

Andersen, Lloyd W., Assoc. Professor Emeritus, formerly IPM Coord.
Ball, Harold J., Professor, Insect Physiology
Baxendale, Frederick P., Asst. Professor, Turf Insects
Bell, Jerold, Adjunct Asst. Professor Emeritus, USDA-APHIS
Campbell, John B., Professor, West Central Res. & Ext. Center, North Platte, Livestock Insects
Danielson, Stephen D., Asst. Professor, Forage Insects
Dickason, E. A., Professor Emeritus, Former Head
Dix, Mary Ellen, Adjunct Assoc. Professor, USDA-FS, Forest Insects
Godfrey, Larry, Research Assoc., Corn Insects
Gold, Roger E., Professor, former Head, presently Interim Director, Water Center (Asst. Dean of the Ag Research Div. & Coop. Ext. Ser.)
Hagen, Arthur F., Assoc. Professor, Survey Coord., West Central Res. & Ext. Center, North Platte
Harrell, Mark, Courtesy Asst. Professor, Dept. of Forestry, Fisheries, and Wildlife, Tree Pests
Hein, Gary L., Asst. Professor, Panhandle Res. & Ext. Center, Scottsbluff, Small Grain Insects
Holtzer, Thomas O., Former Assoc. Professor, Corn Insects
Joern, Anthony, Courtesy Assoc. Professor, School of Biological Sciences, Insect Ecology
Jones, J. Ackland, Assoc. Professor, Ornamental Insects
Kamble, Shripat T., Courtesy Assoc. Professor, Environmental Programs, Pesticide Assessment
Keith, David L., Professor, Team Leader MIAC/Morocco Project, Settlat, Morocco
Kramer, Wayne, Adjunct Asst. Professor, Nebraska Department of Health, Medical Entomology
Manglitz, George R., Adjunct Professor, USDA-ARS, Forage Insects
Mayo, Z B, Professor, Acting Head, Insect Genetics
Meinke, Lance J., Asst. Professor, Soil Arthropods
Pasek, Judith E., Adjunct Asst. Professor, Forest Insects, USDA-FS
Peters, Leroy, Professor, South Central Res. & Ext. Center, Clay Center, Stored Grain Insects
Petersen, James J., Adjunct Professor, Livestock Insects, USDA-ARS
Pruess, Kenneth P., Professor, Aquatic Insects
Ratcliffe, Brett C., Courtesy Assoc. Professor, Nebraska State Museum, Curator of Insects
Roselle, Robert E., Professor Emeritus, former Extension Entomologist
Staples, Robert, Professor Emeritus, Small Grain Insects - Virus Vectors
Thomas, Gustave D., Adjunct Professor, USDA-ARS, Livestock Insects
Walstrom, Clifford J., Instructor, Apiculture
Witkowski, John F., Professor, Northeast Res. & Ext. Center, Concord, Corn and Soybean Insects
Wright, Robert J., Asst. Professor, IPM Coordinator

Support Staff

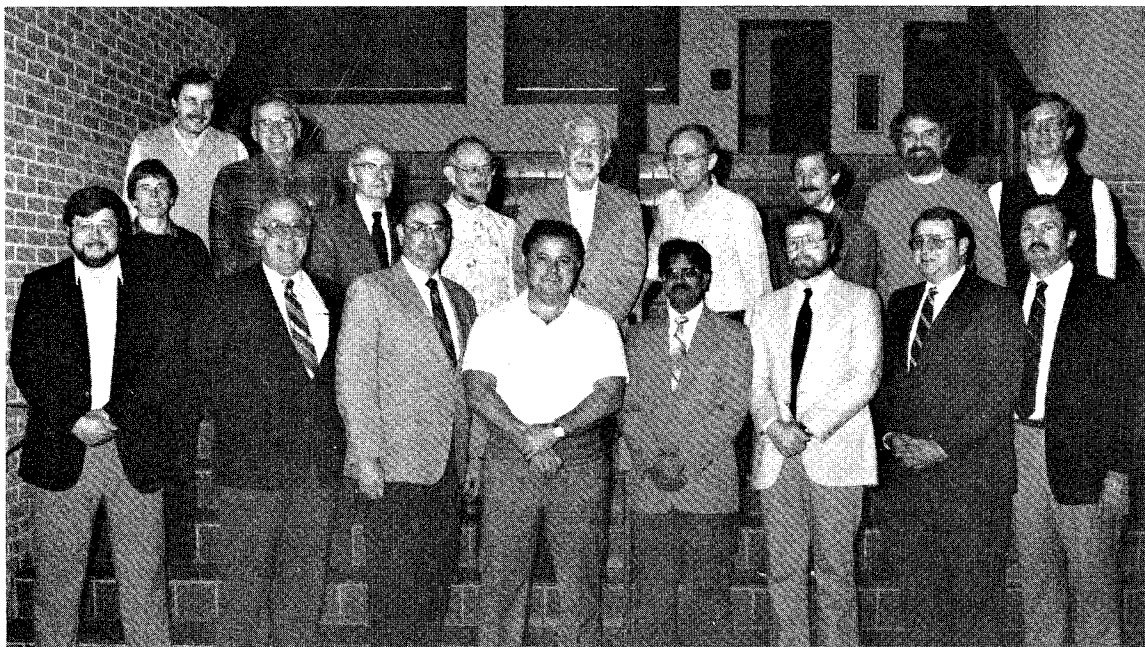
Barnhart, Michael, Corn Insects
Berkebile, Dennis, Livestock Insects, USDA-ARS
Boxler, Dave, West Central Res. & Ext. Center, North Platte
Brown, James F., Corn Insects Dukes, Terrance L., Insectary Shop
Kalisch, James A., Extension Technologist
Jarvi, Keith J., Northeast Res. & Ext. Center, Concord
Klasna, M. Jean, Accounting Clerk II
McKee, Kittie R., Extension Secretary II
Mullahey, Jane, Secretary II
Ogg, Clyde, Urban Insects
Seymour, Ronald C., West Central Res. & Ext. Center, North Platte
Silberman, Lisa, Insect Genetics
Skoda, Steve, Livestock Insects, USDA-ARS
Spomer, Steve, Corn Insects
Stevens, Henry J., Jr., Forage Insects, USDA-ARS
Weidner, Marilyn A., Secretary III

Graduate Students

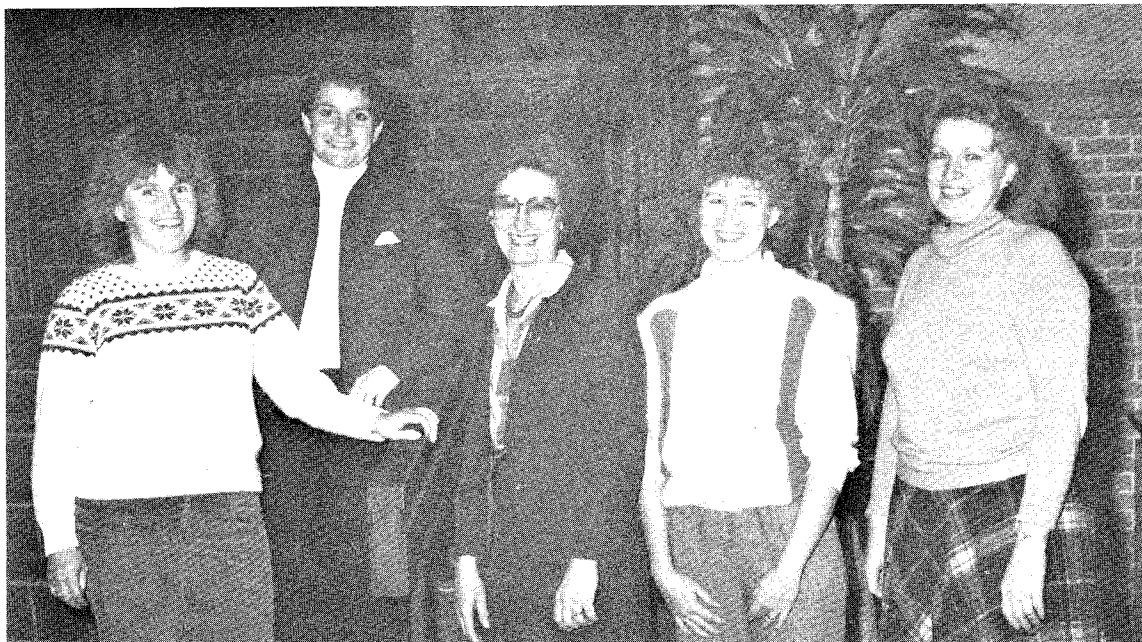
Appel, Larry, * (Advisor: John Campbell)
Berkebile, Dennis, ** (Advisor: Gustave Thomas)
Byers, Matt, ** (Co-Advisors: Shripat Kamble and John Witkowski)
Catangui, Mike, ** (Advisor: John Campbell)
Clopton, Richard, * (Advisor: Roger Gold)
Darrow, Pat, ** (Co-Advisors: John Witkowski and Walter Stroup, Biometrics)
Davis, Bob, * (Advisor: Shripat Kamble)
Ellis, Marion, ** (Co-Advisors: George Manglitz & Fred Baxendale)
Hanner, Krista, * (Advisor: Lance Meinke)
Hariharan, Mangala, * (Advisor: John Witkowski)
Helms, Jeff, * (Advisor: John Witkowski)
Jameson, Mary, * (Advisor: Brett Ratcliffe)
Jarvi, Keith, ** (Advisor: John Witkowski)
Ogg, Clyde, * (Advisor: Roger Gold)
Paustian, John, * (Advisor: Fred Baxendale)
Pawson, Barry, ** (Advisor: James Petersen)
Peitzmeier, Barbara, * (Advisor: John Campbell)
Seymour, Ron, ** (Advisor: John Campbell)
Sivakumaran, * (Advisor: Z B Mayo)
Skoda, Steve, ** (Advisor: Gustave Thomas)
Stamm, Dennis, ** (Advisor: Z B Mayo)
Uscian, John, * (Advisor: Z B Mayo)
Watson, David Wes, ** (Advisor: James Petersen)
Weissling, Tom, ** (Co-Advisors: Lance Meinke & Z B Mayo)
Zhu, Xiaolong, ** (Advisor: Ken Pruess)

* MS Objective

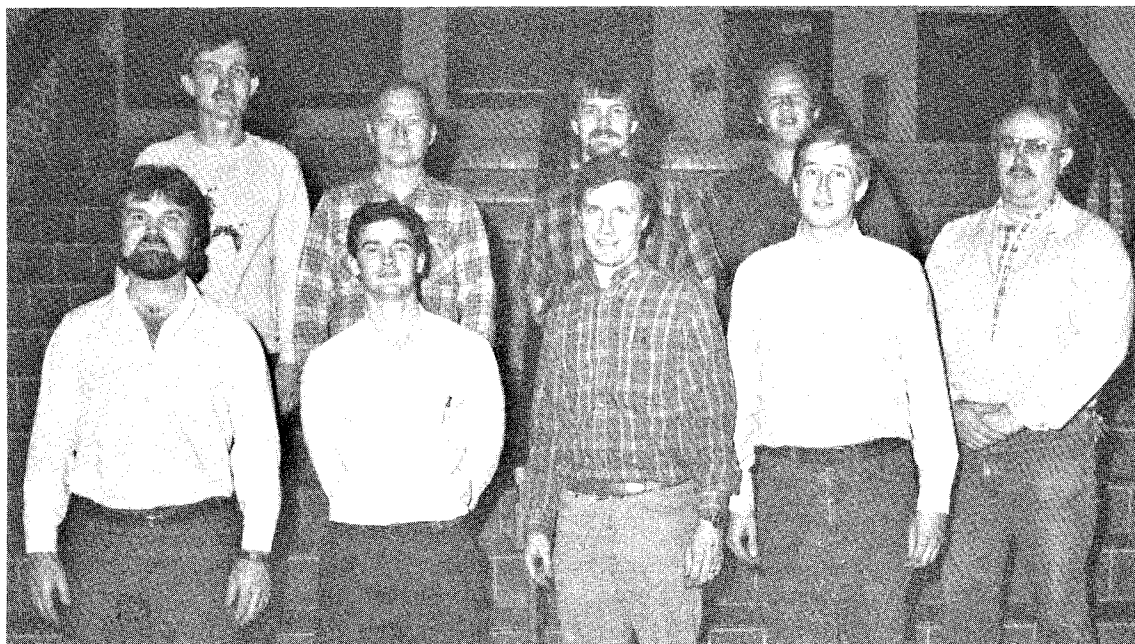
** Ph. D. Objective



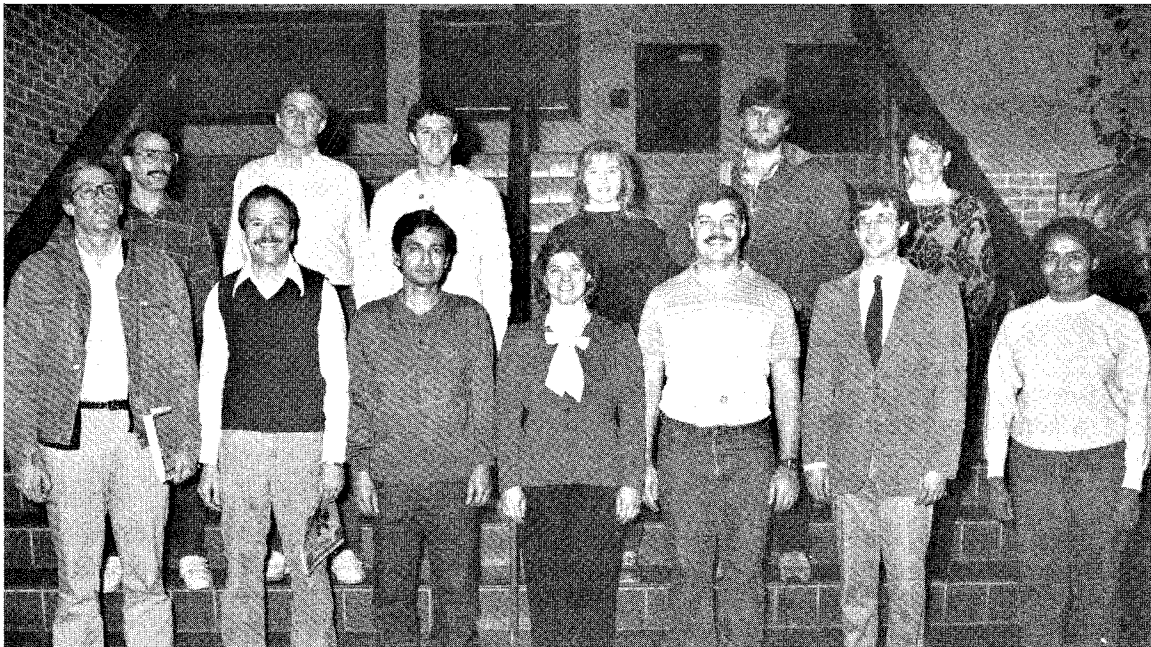
Department Faculty. [Front row l. to r.] Dave Keith (now in Morocco), Dean Kindler (recently transferred by USDA to Oklahoma), Ackland Jones, Gus Thomas, Shripat Kamble, Brett Ratcliffe, Roger Gold (now Interim Director, Water Center), Z B Mayo (Acting Head) [Back row l. to r.] Mary Ellen Dix, Lance Meinke, George Manglitz, R.E. Hill (Deceased), Ken Pruess, Hal Ball, Jim Petersen, Fred Baxendale, Tom Holtzer (now Dept. Head at Colo. State Univ.), and Steve Danielson. [NOT PICTURED - Lloyd Andersen, Jerry Bell, Jack Campbell, E.A. Dickason, Larry Godfrey, Art Hagen, Mark Harrell, Gary Hein, Tony Joern, Wayne Kramer, Judy Pasek, Leroy Peters, Bob Roselle, Cliff Walstrom, and Bob Wright].



Department Office Staff (l. to r.) Jean Klasna, Kitti McKee, Betty Meyers, Jane Mullahey, and Marilyn Weidner.



Department Technical Staff (l. to r.) [Front] Steve Skoda, Ron Seymour, Jim Kalisch, Clyde Ogg, [Back] Dennis Berkebille, Mike Barnhart, Mark Brill (resigned), Keith Jarvi, and Terry Dukes. [NOT PICTURED - Dave Boxler, Jim Brown, Lisa Silberman, Steve Spomer, and Henry Stevens]



Graduate Students (l. to r.) [Front] Jeff Helms, Wes Watson, Siva Sivakumaran, Judy Pasek, Pat Darrow, Jim Berry (now USDA, Bozeman, MT), Mangala Hariharan, [Back] Frank Shotkoski, Barry Pawson, Mary Liz Jameson, Matt Byers, and Jill Heintz. [NOT PICTURED - Larry Appel, Mike Catangui, Rich Clopton, Bob Davis, Marion Ellis, Krista Hanner, John Paustian, Barb Peitzmeier, Dennis Stamm, John Uscian, Tom Weissling and Xiaolong Zhu]

CAMPUS CHANGES

Much physical change has taken place on the East Campus (for the old timers we're talking about what used to be known as "Ag Campus") during the past 12 years.

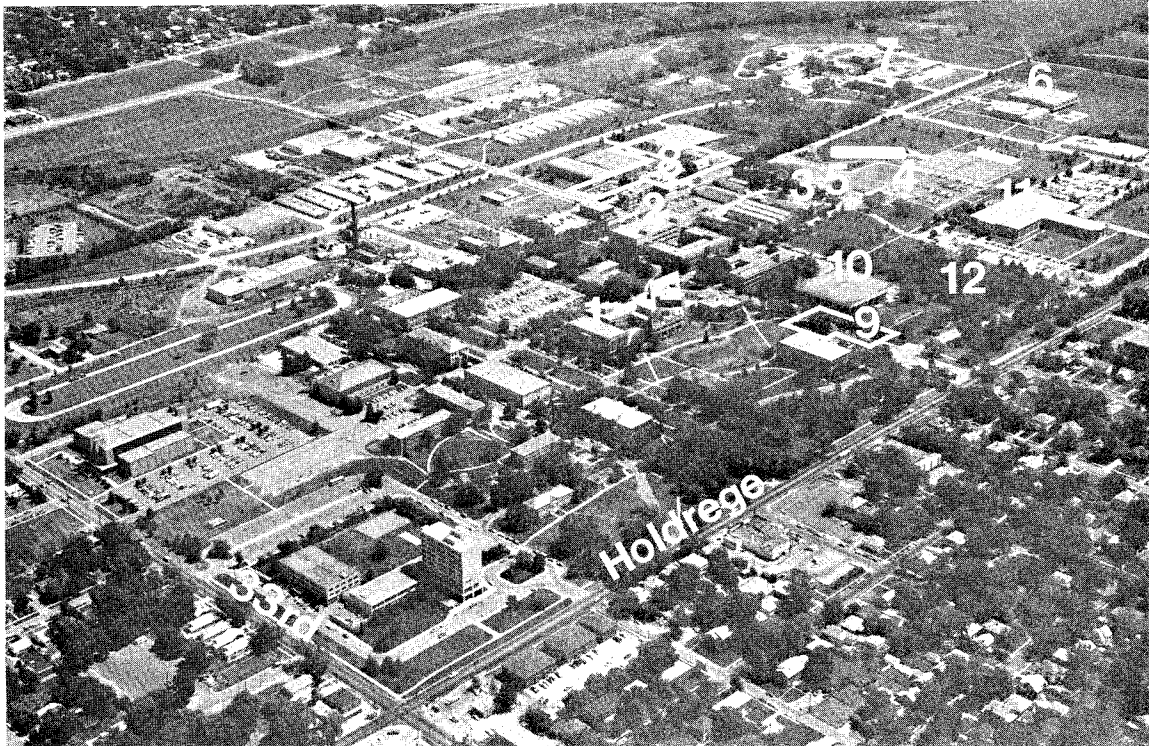
The rather serious fire which occurred in the Plant Industry Building during the summer of 1975 was reported in the last Newsletter. After a period of absence, during the re-construction, the prior occupants of PI returned. In 1979 a new building, Plant Science, was completed just north of and attached to Keim Hall. The Plant Pathology Department then vacated their quarters of long standing on the third floor of PI and moved in the new building along with the Horticulture Department and parts of the Agronomy Department. This left the Department of Forestry, Fisheries, and Wildlife with the basement and the first floor of PI. Entomology remained on the second floor and expanded onto the third floor. Entomology staff who formerly had offices in the Insectary and the Forage Insect Laboratory then moved their offices to PI with the vacated space remaining under department control for use as laboratory and work space. At about the same time the Department took control of the "old Dairy Dorm", a 2-story brick building and all that remains of the former Milking Parlor and Dairy Complex. This takeover was for the purpose of providing laboratory and work space for a re-activated USDA- ARS Livestock Insects Unit. The remainder of the area that had once held the Dairy Complex is now paved student parking. To the east of the parking lot is a new Law College Building and a rather large Veterinary Science Complex.

The most recently completed (1987) building belongs to the Animal Science Department. That building caused the removal of the "Old Beef Barn" which was just across the street from the Insectary Building and has greatly changed the nature of that part of the campus. The few farm animals that remain on campus are kept out of sight and under cover. The aromas of the good old days (vet. science incinerator, silo spillage, feedlots, etc.) are gone forever.

And it seems as though our campus will never be complete. As soon as one building is done, construction is underway on another. Our most recent "under construction" is a new food processing center which is being built as an addition to Filly Hall but which already is beginning to overshadow Filly. The completion date of this latest project is about one year from now.

In spite of the turmoil of physical growth our campus is more beautiful than ever and some tranquil spots have been preserved. The area between C.Y. Thompson Library and the Dental College always contained a number of trees unique to Nebraska and some time ago was designated as the 'Maxwell Arboretum'. Continued improvements in the arboretum include, chipped trails, educational exhibits, many new plantings, benches, picnic tables, and an acre or two of re-constructed prairie located just south of the Forage Insect Lab.

While this is not an exhaustive and all inclusive description of the physical changes on our campus, we hope that we have piqued your curiosity and that you are now planning to come and visit us.



Aerial photo of East Campus - about 1980. Places mentioned in note on 'Campus Changes': 1 = Plant Industry Bldg.; 2 = Plant Science; 3 = Forage Insect Laboratory; 4 = "Old Dairy Dorm" - Livestock Insect Lab.; 5 = Student Parking - Former Site of Dairy Complex; 6 = Law College; 7 = Veterinary Science Complex; 8 = Animal Science Addition; 9 = New Food Processing Center (under construction); 10 = C.Y. Thompson Library; 11 = Dental College; 12 = Maxwell Arboretum.

DEPARTMENT ACTIVITIES

Things are moving so fast we haven't time to bring you up-to-date on all our activities. We plan more news for Part 2 including a complete list of publications since the last Newsletter. The following list of thesis completed will give you some idea of the scope of our recent activities.

THESIS COMPLETED SINCE LAST NEWSLETTER

1977

- Baker, J.R. 1977. A synopsis of the Cerambycidae of Nebraska. M.S. Thesis. Advisor: K.P. Pruess
- Ballard, James B. 1977. The ecology of ants in a Nebraska sandhills corn field. M.S. Thesis. Advisor: K.P. Pruess (See Ballard 1982)
- Carpino, Donald P. 1977. Insect parasites of the European corn borer, Ostrinia nubilalis (Hubner), in Nebraska. M.S. Thesis. Advisor: Z B Mayo (FMC Corp., Omaha, NE)
- Miller, Timothy P. 1977. The role of oats (Avena sativa L.) in the epidemiology of wheat streak mosaic in Nebraska. M.S. Thesis. Advisor: R. Staples (See Miller 1982)
- Rivers, Ronnie L. 1977. The biology of Tiphia berbereti Allen (Hymenoptera: Tiphidae). Ph.D. Dissertation. Advisor: Z B Mayo and T.J. Helms (Teaching; CA)

1978

- Brewer, Gary J. 1978. Companion Planting: The effect of the interaction of tansy (Tanacetum vulgare L.) with cabbage and/or broccoli (Brassica oleracea L.) on populations of insects of the cabbage worm complex. M.S. Thesis. Advisor: H.J. Ball (Faculty; North Dakota State University, Fargo, ND)
- Gary, Walter J. 1978. Pest management in Nebraska: A study of the impact of a pilot pest management program. Ph.D. Dissertation. Advisor: D.L. Keith (Extension Agent; Walla Walla County, Walla Walla, WA)
- Klostermeyer, Lyle 1978. Eastern and western alfalfa weevil Hypera postica (Gyllenhal): distribution in Nebraska, chromosome comparisons, and effect of antibiotics on cross incompatibility. Ph.D. Dissertation. Advisor: G.R. Manglitz (Pest Control Operator; Walla Walla, WA)
- Newton, James P. 1978. Microbial degradation of carbofuran in a Nebraska corn field. M.S. Thesis. Advisor: Z B Mayo (self-employed; KY)
- Rasmussen, Rebecca L. 1978. Population dynamics of the stable fly, Stomoxys calcitrans (L.) under field conditions. M.S. Thesis. Advisor: J.B. Campbell (Agriculturalist; American Cyanamid, Princeton, NJ)
- Shugart, Jack I. 1978. The face fly, Musca autumnalis DeGeer: Ability to cause mechanical damage and transmit pinkeye pathogens. Ph.D. Dissertation. Advisor: J.B. Campbell (Manager, Pesticides; Ralston Purina, St. Louis, MO)

1979

- Adeniji, Oluyinka 1979. Resistance of bluegrass cultivars to the greenbug, Schizapis graminum (Rondani). M.S. Thesis. Advisors: R. Staples, S.D. Kindler (Faculty; Nigeria)
- Ahmad, Tarik R. 1979. Comparison of heat unit accumulation methods for predicting European corn borer and western bean cutworm moth flights. M.S. Thesis. Advisor: K.P. Pruess (University Faculty; Baghdad, Iraq)
- Koziol, Frederick S. 1979. Dosage-mortality data for five insecticides to European corn borer larval populations. M.S. Thesis. Advisor: J.F. Witkowski (Blacksburg, VA)
- Lew, Albert C. 1979. Pheromone secretory cells and the behavioral aspects of mating in the western corn rootworm, Diabrotica virgifera LeConte. Ph.D. Dissertation. Advisor: H.J. Ball (Entomologist; FMC Corp., Princeton, NJ)

1980

- Boxler, David J. 1980. Survey of house fly, Musca domestica (L.), resistance to dichlorvos in Dawson and Lincoln counties. M.S. Thesis. Advisor: J.B. Campbell (Technologist; Univ. of Nebr. W. Central Research & Extension Center, North Platte, NE)
- Buske, Marco C. 1980. Influence of field corn resistance on European corn borer (Ostrinia nubilalis Hubner) larval survival. M.S. Thesis. Advisor: J.F. Witkowski (Area Agronomist; Iowa State Univ., Council Bluffs, IA)
- DeVries, Nancy E. 1980. The effect of water stress in two varieties of alfalfa (Medicago sativa) with respect to the fecundity of the spotted alfalfa aphid (Therivaphis maculata Buckton). M.S. Thesis. Advisor: G.R. Manglitz (Teacher; Lincoln Public Schools, Lincoln, NE)
- Lamp, William O. 1980. Predispersal seed predation of the Platte thistle and its effect on seed production. Ph.D. Dissertation. Advisors: M.K. McCarty, K.P. Pruess (Asst. Prof. of Entomology; Univ. of Maryland, College Park, MD)
- Spomer, Stephen M. 1980. Some effects of greenbugs on grain sorghum seedlings. M.S. Thesis. Advisors: R. Staples, S.D. Kindler (Rsch. Technologist; Dept. of Entomology, Univ. of Nebr., Lincoln, NE)

1981

- Ahmad, Tarik R. 1981. Comparative biology and economics of the chinch bug, Blissus leucopterus leucopterus (Say), on wild and cultivated grasses. Ph.D. Dissertation. Advisors: K.P. Pruess, S.D. Kindler (University Faculty; Baghdad, Iraq)
- Gibney, Vincent J. 1981. Economic effects of Nebraska beef cattle infested with cattle lice. M.S. Thesis. Advisor: J.B. Campbell (Vet Student; Ohio State University, Columbus, OH)
- Karner, Miles A. 1981. Manipulation of Acyrtosiphon pisum (Harris) populations to determine economic thresholds on alfalfa in Nebraska. Ph.D. Dissertation. Advisor: G.R. Manglitz (District Extension Specialist; Oklahoma State University, Altus, OK)
- Pitcairn, Michael J. 1981. Production of benthic macroinvertebrates in Maple Creek, Stanton and Colfax Counties, Nebraska. M.S. Thesis. Advisor: K.P. Pruess (Ph.D. Student; University of California, Berkeley, CA)
- Stage, David A. 1981. The effects of releases of hymenopterous pupal parasites on stable fly, Stomoxys calcitrans (L.), and house fly, Musca domestica (L.), populations at cattle feedlots in northeast Nebraska. M.S. Thesis. Advisor: I.L. Berry (rejoined family farm operation; Laurel, NE)

Stamm, Dennis E. 1981. Implementation of a western corn rootworm beetle scouting procedure to predict larval damage in Nebraska corn fields. M.S. Thesis. Advisor: Z B Mayo (CIBA-GEIGY Corp., York, NE/Ph.D. student, UNL)

1982

Asanzi, C. Mbey-Yame 1982. Roadside mowing and herbicide use effect on food selection and grasshopper movement. M.S. Thesis. Advisors: H.J. Ball, David Keith (National Mais Programme, Rep. of Zaire- Lubumbashi)

Ballard, James B. 1982. Assessment of ecological parameters and trap designs which influence the capture of German cockroaches in laboratory and urban environment. Ph.D. Dissertation. Advisors: R.E. Gold, H.J. Ball (FMC Corporation, Princeton, NJ)

Miller, Timothy P. 1982. Investigations of residual activity, toxicity, and sorption of chlorpyrifos formulations (Killmaster[®] and Dursban[®]). Ph.D. Dissertation. Advisors: R.E. Gold, H.J. Ball (American Cyanamid, Sioux Falls, SD)

Rauscher, Jon D. 1982. Environmental effects influencing the distribution of German cockroaches in choice boxes. M.S. Thesis. Advisor: R.E. Gold (Ph.D. student; Colorado State University, Fort Collins, CO)

Whitmore, Russell 1982. Insect biomass in agronomic crops as food for ring-necked pheasant chicks Phasianus colchicus (L.). Ph.D. Dissertation. Advisors: K.P. Pruess, R.E. Gold (American Cyanamid, Bedford, TX)

1983

Barber, Dan T. 1983. Adult control of the European corn borer, Ostrinia nubilalis (Hubner), under conditions of center pivot irrigations in Nebraska. Ph.D. Thesis. Advisors: J.F. Witkowski, K.P. Pruess (Dow Chemical, Minnetonka, MN)

Hirnyck, Ronda 1983. Management of Banks grass mite, Oligonychus pratensis (Banks), in field corn treated with insecticide for control of western bean cutworm, Loxagrotis albicosta (Smith). M.S. Thesis. Advisor: T.O. Holtzer (Sales Representative; CIBA- GEIGY Corp., Miltna, MN)

Perring, Thomas M. 1983. Influences of temperature, humidity and corn canopy microenvironment on population dynamics of the Banks grass mite, Oligonychus pratensis (Banks). Ph.D. Dissertation. Advisor: T.O. Holtzer (Asst. Professor; Dept. of Entomology; Univ. of Calif., Riverside, CA)

Pritts, Terrell E. 1983. Control and loss estimates of second generation European corn borer Ostrinia nubilalis (Hubner) in corn. M.S. Thesis. Advisor: J.F. Witkowski (Penwalt Chemical, Lincoln, NE)

Vance, Art D. 1983. Investigations of chlorpyrifos resistance demonstrated by German cockroach populations from three Nebraska collection sites. M.S. Thesis. Advisor: R.E. Gold (Lincoln, NE)

Weiss, Michael J. 1983. Influence of corn plant density of population estimates and population dynamic of the western (Diabrotica virgifera virgifera Leconte) and northern (D. longicornis barberi Smith and Lawrence) corn rootworm (Coleoptera: Chrysomelidae). Ph.D. Dissertation. Advisor: Z B Mayo (North Dakota State Univ., Fargo, ND)

1984

- Guzman, David R. 1984. The impact of biological and environmental factors on the overwintering population dynamics of filth fly (Diptera: Muscidae) parasites (Hymenoptera: Pteromalidae) in Nebraska. M.S. Thesis. Advisor: J.J. Petersen (Ph.D. Student; Dept. of Entomology, North Carolina State Univ., Raleigh, NC)
- Monke, Bruce. 1984. The influence of edaphological factors on the biological activity on selected insecticides in agricultural soils. Ph.D. Dissertation. Advisor: Z B Mayo (Miles Laboratories, Chicago, IL)
- Rethwisch, Michael 1984. Distribution and abundance of the blue alfalfa aphid, Acyrtosiphon kondoi Shinji, in Nebraska, its parasitoids, and preferences of the parasitoid Praon pedquodorum Viereck for the blue alfalfa aphid and the pea aphid, A. pisum (Harris). M.S. Thesis. Advisor: G.R. Manglitz (District Extension Specialist; Univ. of Arizona, Yuma, AZ)
- Taruru, Darius K. 1984. Rearing methods and mating behavior of the dung beetle, Copris fricator (Fab.). Ph.D. Dissertation. Advisor: H.J. Ball (Faculty; Kenya, Africa)

1985

- Abid, Hameed S. 1985. Starch gel electrophoretic classification of biotypes and field populations of greenbugs, Schizaphis graminum Rondani (Homoptera: Aphididae). M.S. Thesis. Advisors: S.D. Kindler, S.G. Jensen (Faculty; Institute of Agricultural Technology, Baghdad, Iraq)
- Coffelt, Mark A. 1985. The biology of a honeysuckle aphid Hyadaphis tataricae (Aizenberg) in Nebraska. M.S. Thesis. Advisor: J.A. Jones (Virginia Truck & Ornamental Research Station, Virginia Beach, VA)
- Currier, Daniel 1985. Application of Chlorphrifos 4E through center pivot irrigation systems for control of larvae of the European corn borer Ostrinia nubilalis (Hubner). M.S. Thesis. Advisor: J.F. Witkowski (Ph.D. Student; Iowa State University, Ames, IA)
- Ogbonnaya, Alfred C. 1985. Influence of biotype E greenbugs on biochemical properties of sorghum. Ph.D. Dissertation. Advisors: S.D. Kindler, S.G. Jensen (Faculty; Mountain Empire Community College, Big Stone Gap, VA)
- Schreiber, Eric T. 1985. Bionomics of the horn fly (Haematobia irritans) in western Nebraska. Ph.D. Dissertation. Advisor: J.B. Campbell (Riverside, CA)
- Skoda, Steven R. 1985. Wide area treatment of horn and face flies in south central Nebraska: with observations on parasites of face flies. M.S. Thesis. Advisor: J.B. Campbell (Technician; USDA-ARS, Lincoln, NE/Ph.D. student; Univ. of Nebr., Lincoln, NE)
- Yearley, Michael 1985. Nosema apis (Zander): its effects on the honeybee, Apis mellifera (Linnaeus) and the effect of winterizing beehives on the survival of N. apis infected colonies. M.S. Thesis. Advisor: H.J. Ball (Captain, U.S. Army National Guard, Lincoln, NE)

1986

- Carter, Mark R. 1986. Studies on the influence of simple trichomes and other characteristics of an alfalfa plant introduction on the resistance to the spotted alfalfa aphid (Homoptera: Aphididae). M.S. Thesis. Advisor: G.R. Manglitz (Ph.D. Student; V.P.I. & S.U., Blacksburg, VA)
- Darrow, Patrick O. 1986. Substrate and leaf effects on aquatic insects colonizing basket samplers in a southeast Nebraska stream. M.S. Thesis. Advisor: K.P. Pruess (Ph.D student; Univ. of Nebr., Lincoln, NE)

- Lhaloui, Saadia. Dec., 1986. Effects of plant resistance, insecticide treatment, and planting dates on Hessian fly infestations in wheat in Morocco. M.S. Thesis. Advisor: D.L. Keith (Entomologist; Morocco)
- Pawson, Barry M. May, 1986. Dispersal of mass released Muscidifurax zaraptor, a filth fly parasitoid, on cattle installations in eastern Nebraska. M.S. Thesis. Advisor: J.J. Petersen (Ph.D. Student; Univ. of Nebr., Lincoln, NE)
- Seymour, Ronald C. Dec., 1986. Predators and Parasites of House Flies (Musca Domestica L.) and Stables Flies (Stomoxys Calcitrans L.) in Cattle Confinements in Lincoln County, Nebraska. M.S. Thesis. Advisor: J.B. Campbell. (IPM Technician, North Platte, NE, Univ. of Nebr.; Lincoln, NE)
- Sutherlin, Tommy A. 1986. Development of field and laboratory techniques to evaluate the relative attractiveness of corn plants to corn rootworm beetles. Ph.D. Dissertation. Advisor: Z B Mayo (Teacher; Omaha, NE)

1987

- Danielson, Stephen D. Aug. 1987. Influence of glandular-haired perennial Medicago species on the alfalfa weevil (Hypera postica [Fyllenhal]) (Coleoptera: Curculionidae). Ph.D. Dissertation. Advisor: G.R. Manglitz (Asst. Prof. and Extension Entomologist; Univ. of Nebr., Lincoln, NE)
- Matthews, Jacqueline R. (Trumbull). Aug. 1987. Biological studies of Urolepis Rufipes (Ashmead) (Hymenoptera: Pteromalidae), A parasite of filth flies in Nebraska. M.S. Thesis. Advisor: J.J. Petersen (Rancher; Stapleton, NE)
- Pasek, Judith Eleanor. Aug. 1987. Life history and impact of seed and cone insect species found on Pinus ponderosa Dougl. Ex Laws in Southeastern Nebraska. Ph.D. Dissertation. Advisor: M.E. Dix (Entomologist, USDA-FS, and Adjunct Asst. Prof.; Univ. of Nebr., Lincoln, NE)

1988

- Berry, James S. May 1988. Dispersal and population simulation model of spider mites and a phytoseiid predator in the corn plant microenvironment. Ph.D. Dissertation. Advisor: T.O. Holtzer and J.M. Norman (Agronomy) (Entomologist; USDA-ARS, Bozeman, MT)
- Heintz, Jill C. May 1988. Influences of temperature and humidity on egg development rate, consumption and fecundity of a predatory mite, Neoseiulus Fallacis (Garman). M.S. Thesis. Advisor: T.O. Holtzer (McLaughlin, Gormley, King Co., Minneapolis, MN)
- Shotkoski, Frank A. May 1988. Insecticide resistance in Schizaphis graminum (Rondani) (Homoptera: Aphididae) induced by continuous exposure to systemic insecticides. M.S. Thesis. Advisor: Z B Mayo (Ph.D. Student; Univ. of Minn.)

Dear Friends:

If this Newsletter has been a tease, caused fits of nostalgia, flooded you with good memories, flooded you with bad memories, any of the above, or all of the above, please fill in the form below and return to us as soon as possible (hopefully by October 30). We will then work hard to get Part Two of this newsletter to you before 1988 (our centennial year) becomes a part of history.

Thank you,

Newsletter Committee
Department of Entomology
University of Nebraska
Lincoln, NE 68583-0816

ENTOMOLOGY NEWSLETTER COMMITTEE

Date _____

Full Name _____

Present address _____

City _____ State _____ Zip _____

Present Position _____

Employer _____

Degree(s) obtained or position(s) held at UNL, with dates _____

Please write a brief paragraph on any of your recent activities that you would like to share with us. You may use the back also if you so desire.

